

FIG. 1

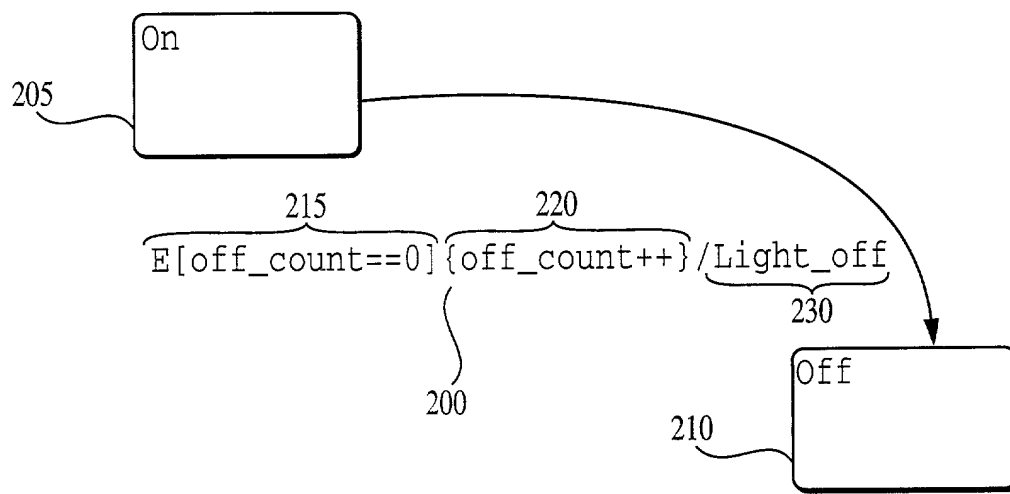


FIG. 2

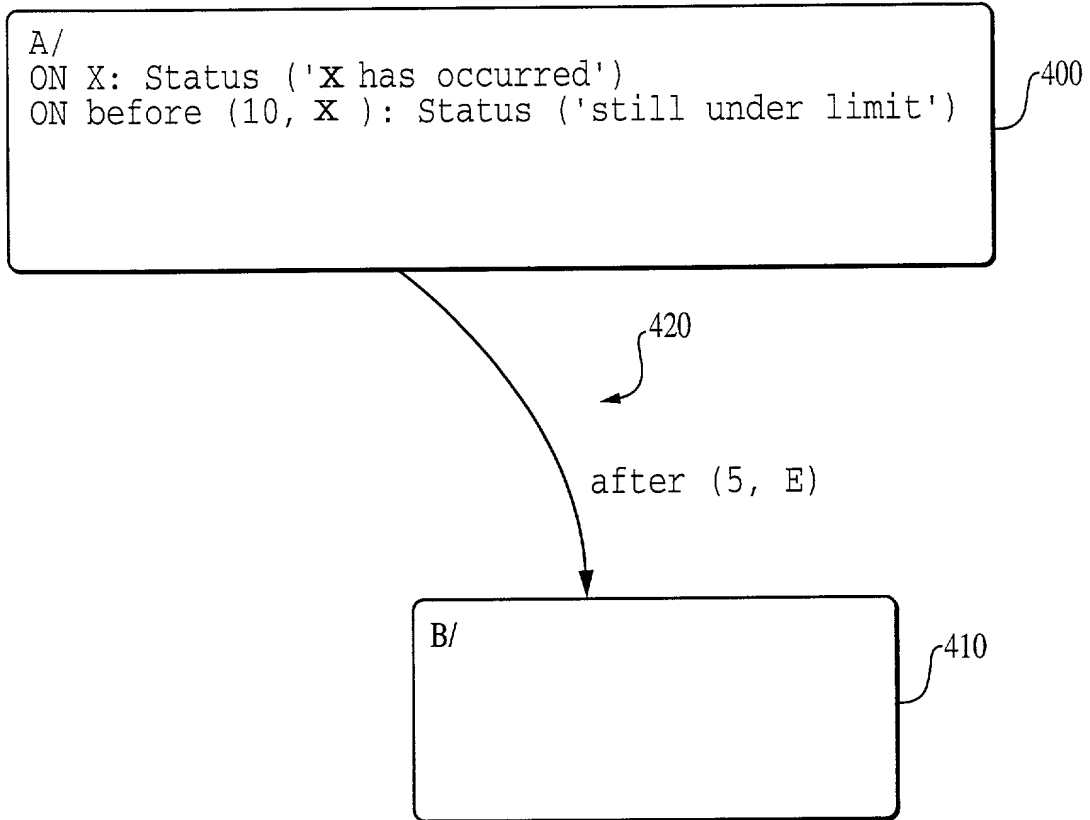


FIG. 3

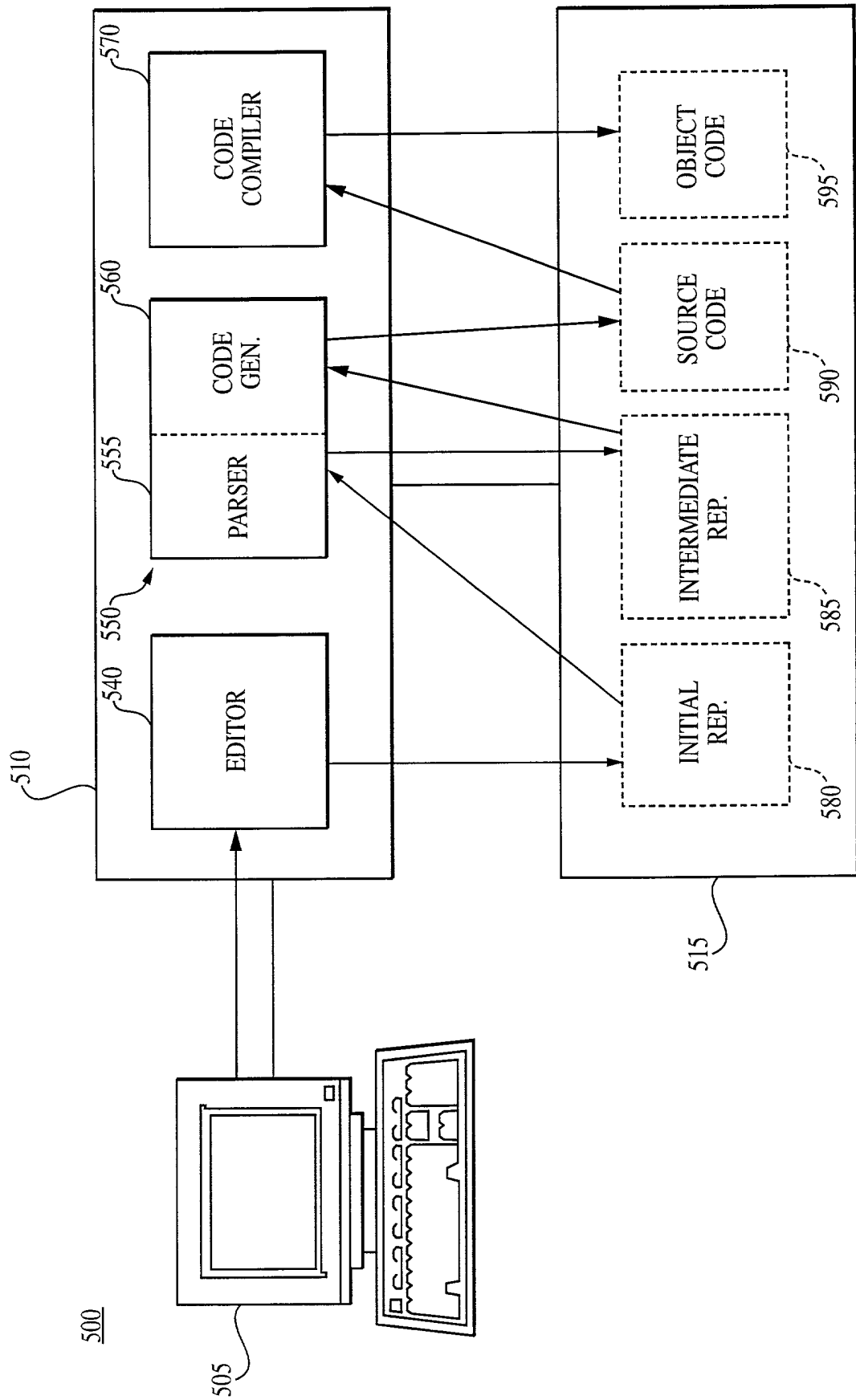


FIG. 4

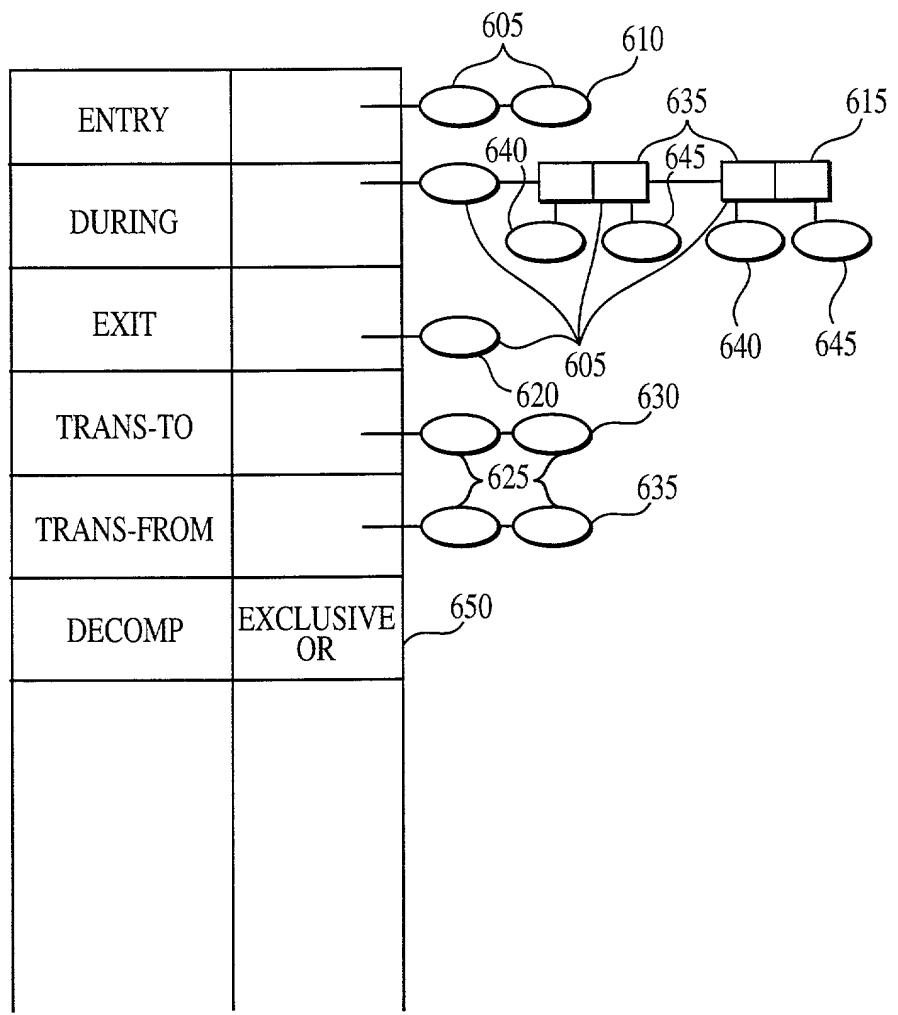


FIG. 5

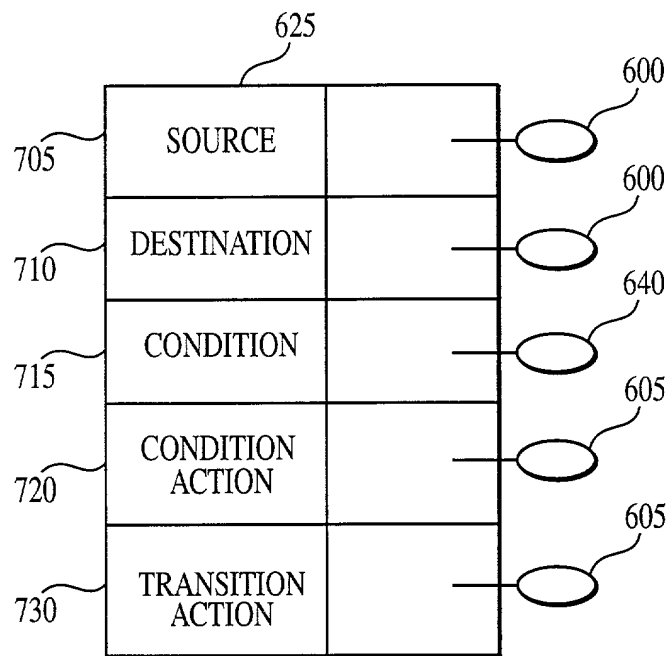


FIG. 6

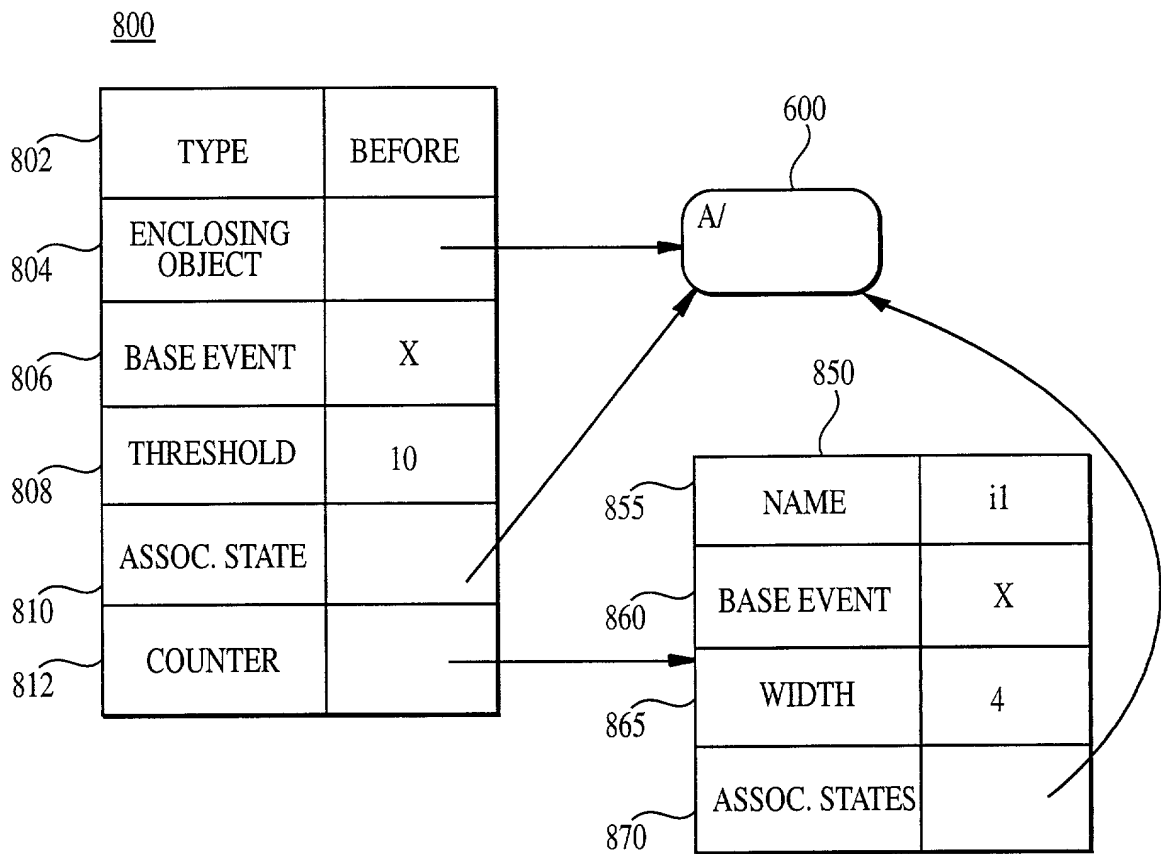


FIG. 7

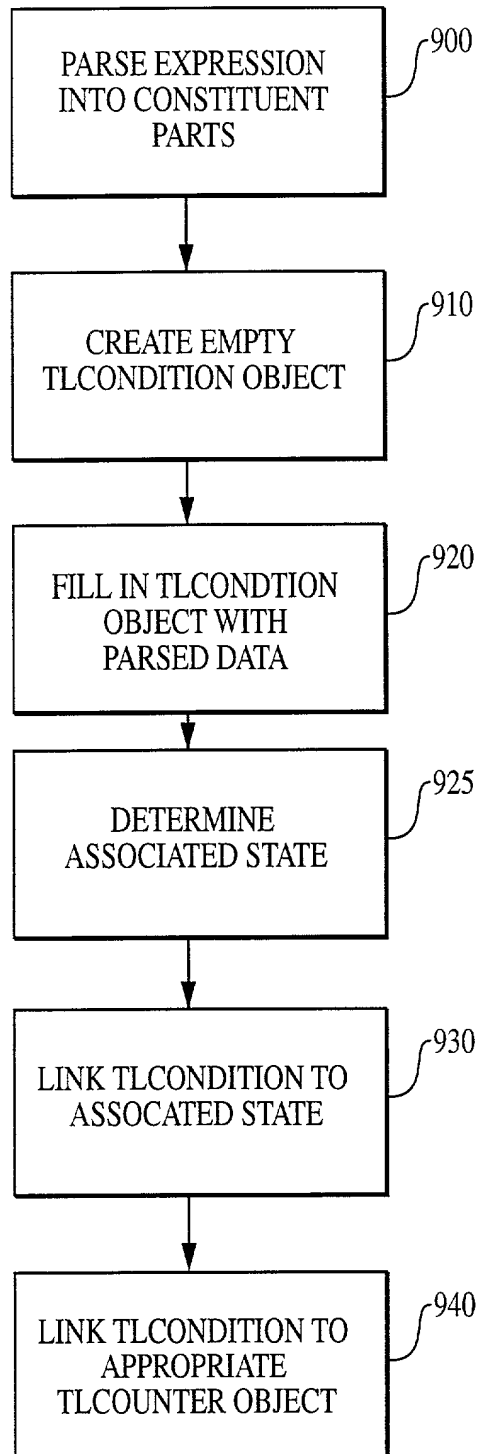


FIG. 8

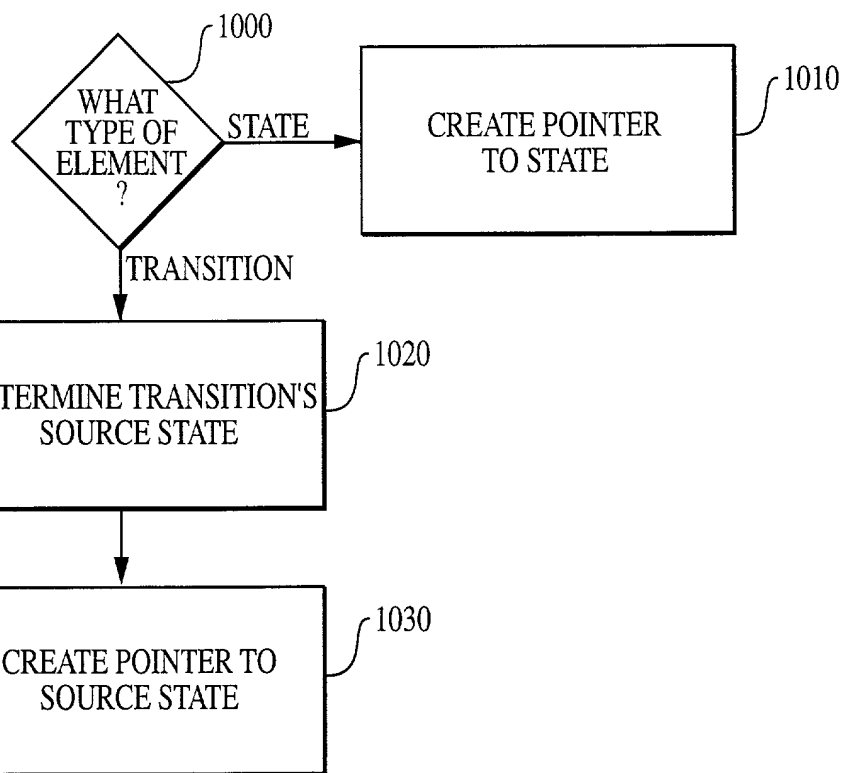


FIG. 9

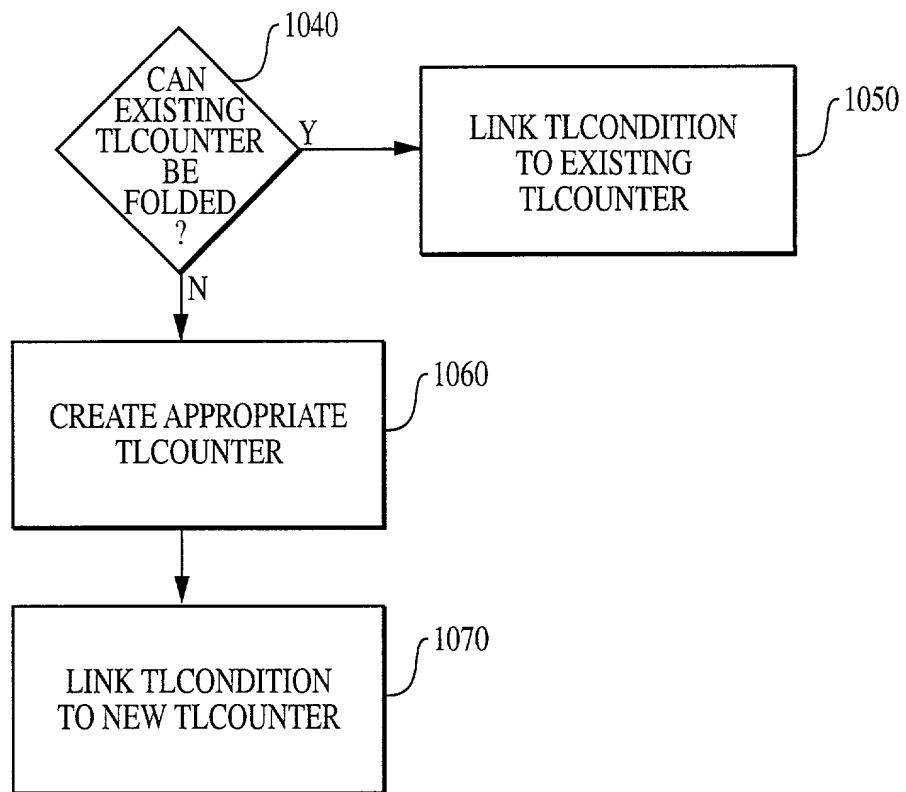


FIG. 10

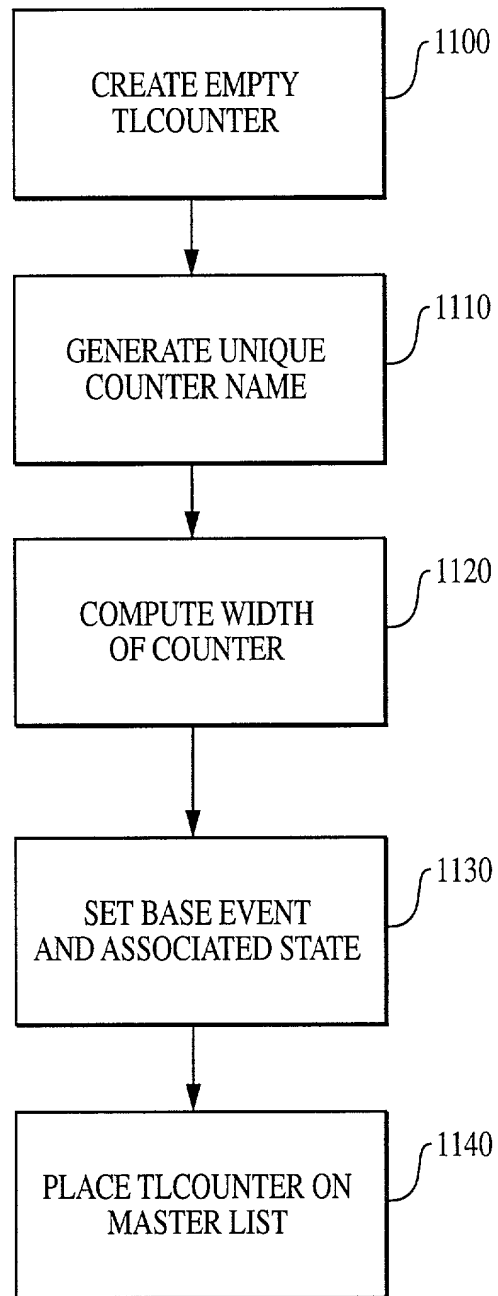


FIG. 11

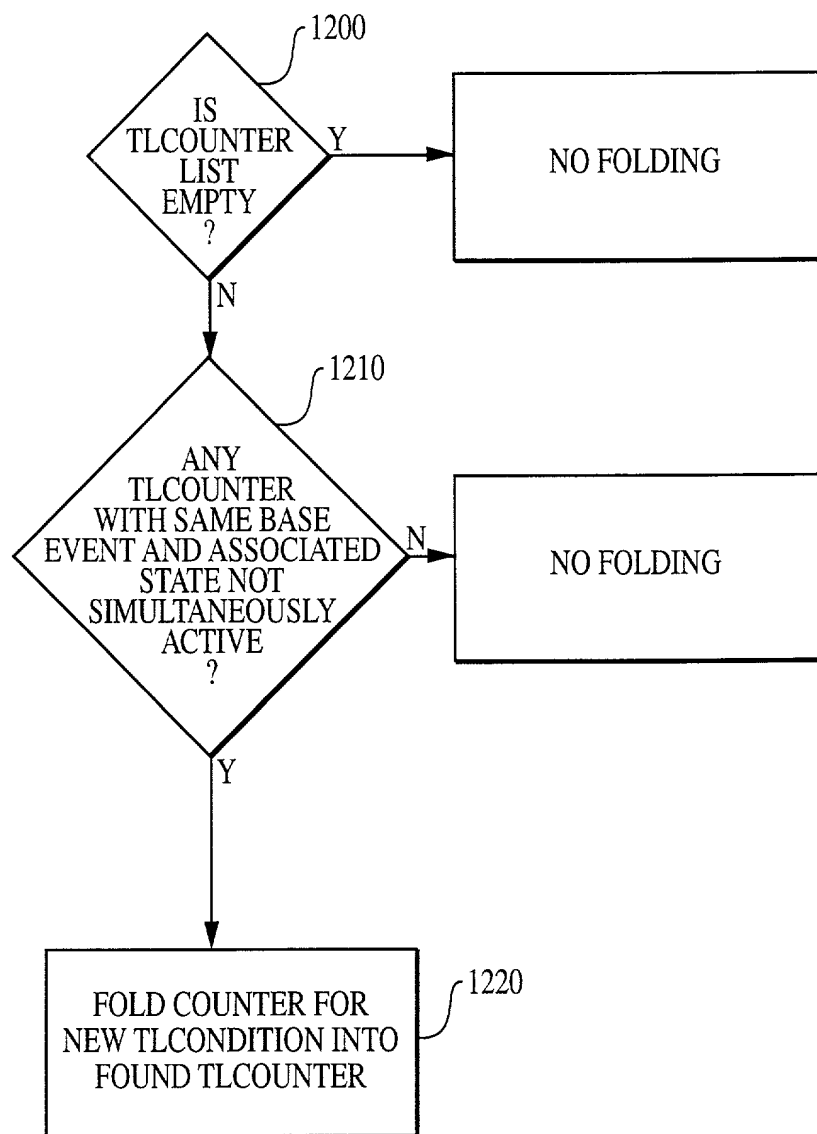


FIG. 12

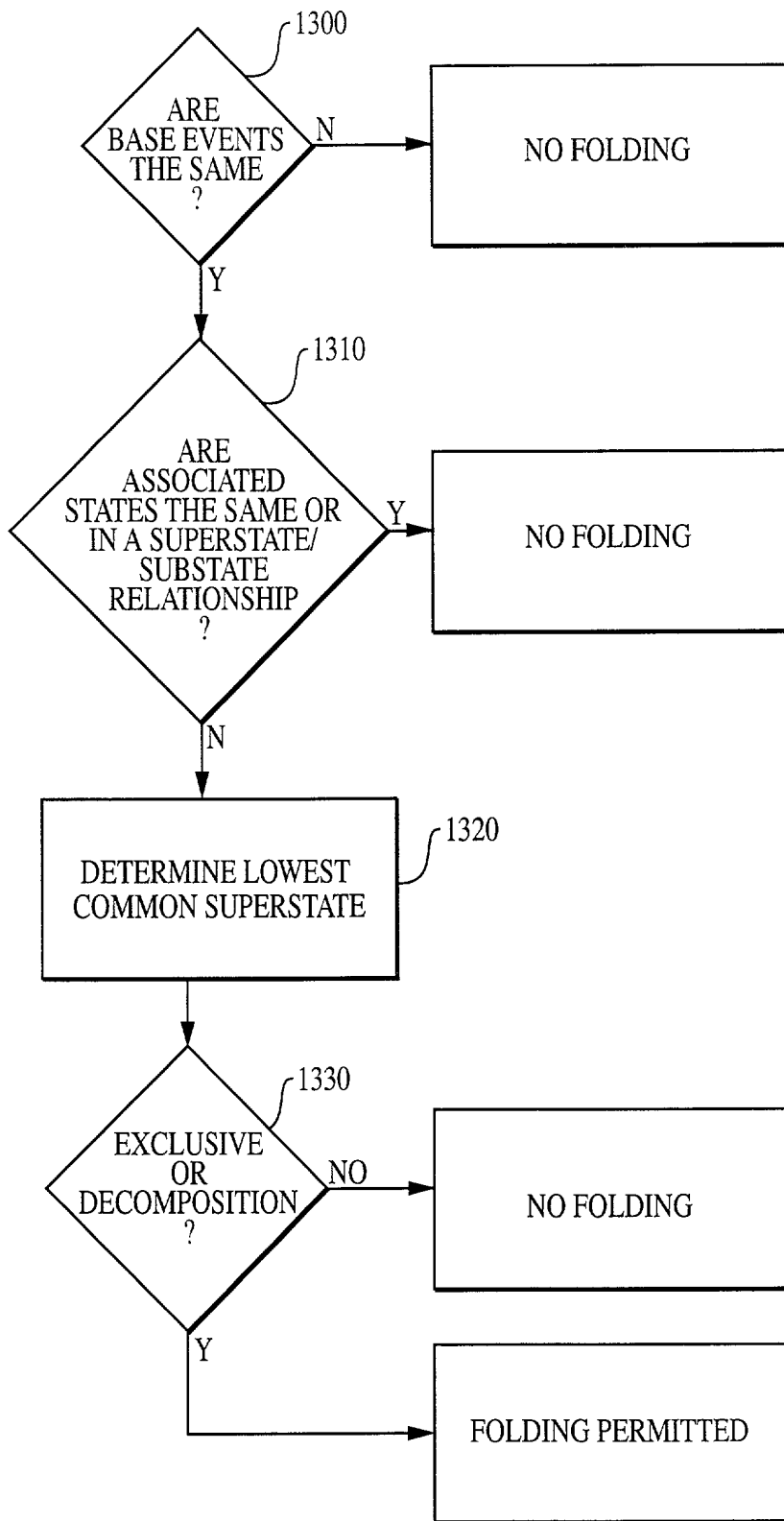


FIG. 13

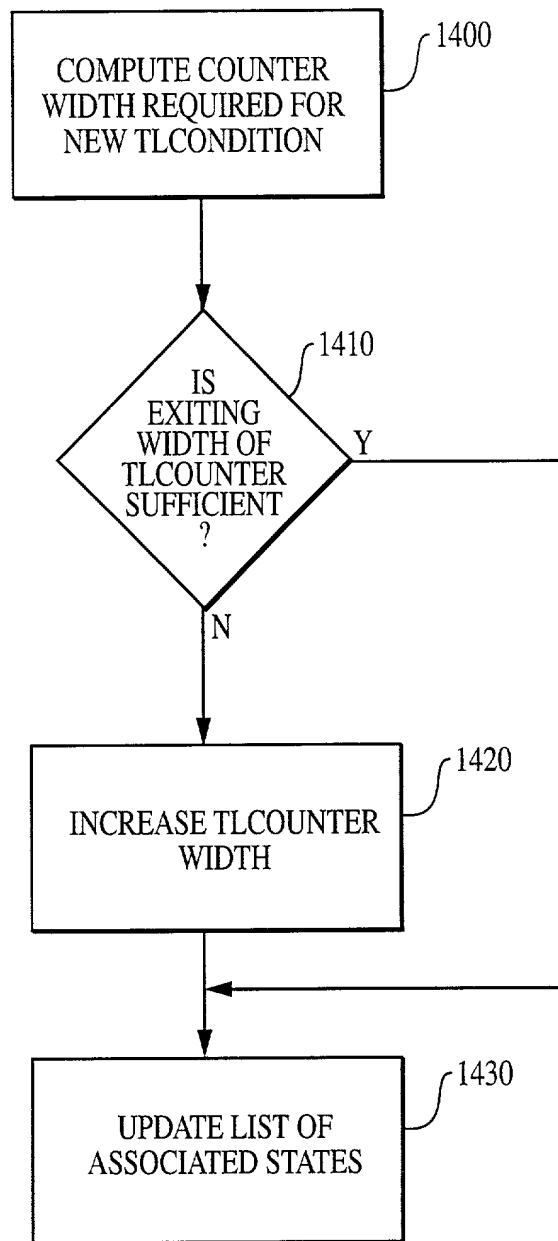


FIG. 14

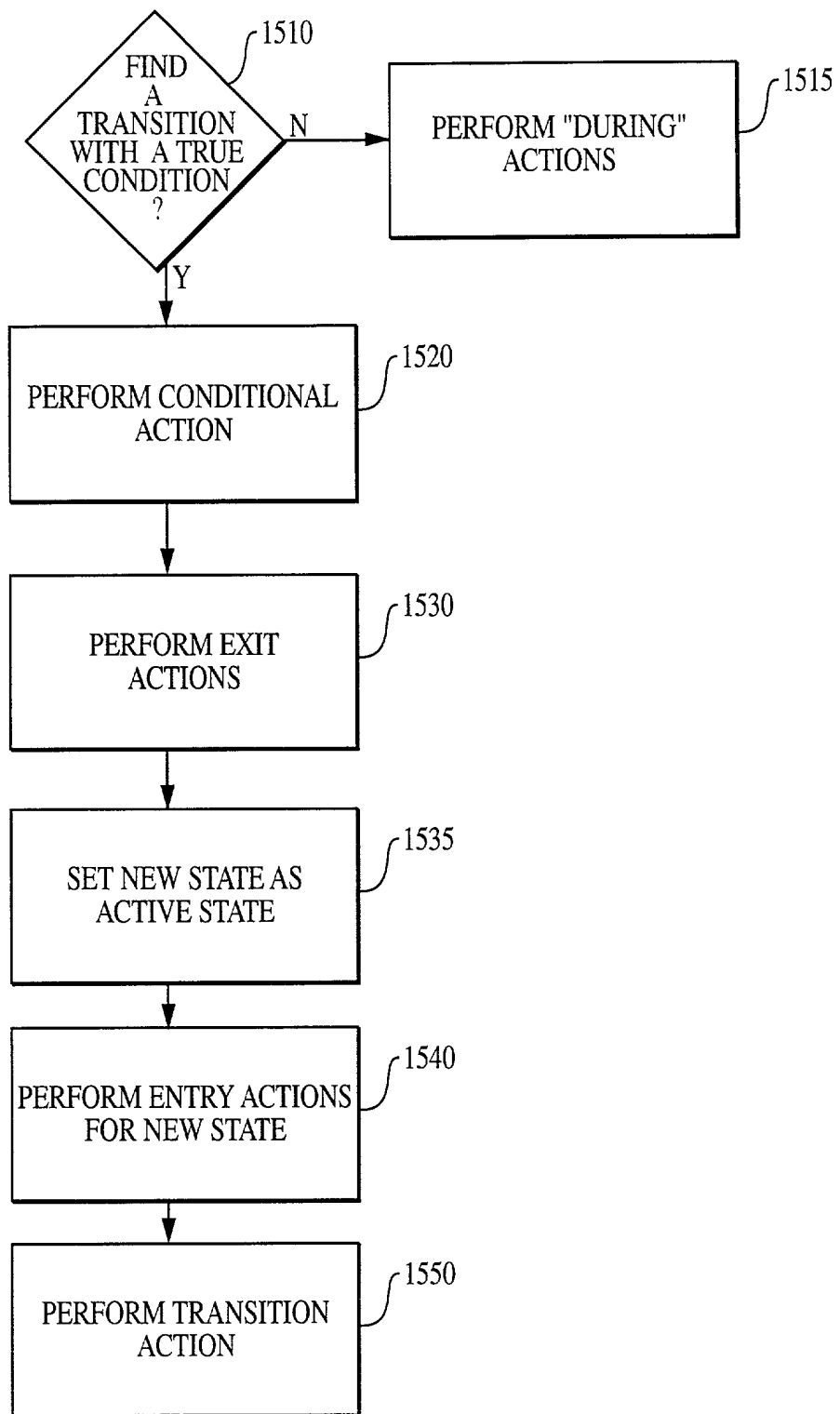


FIG. 15

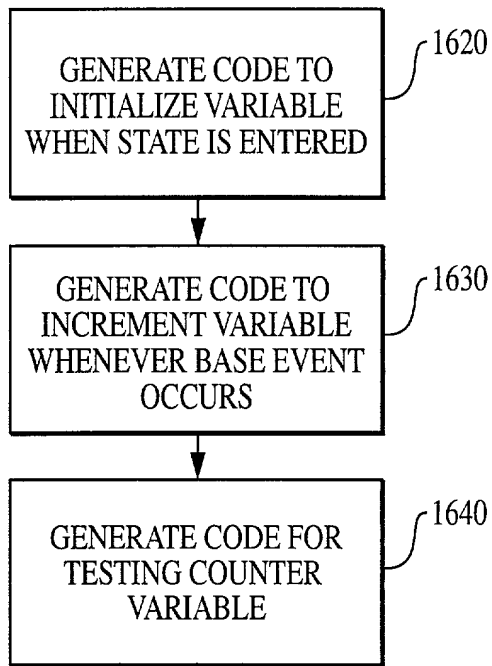


FIG. 16

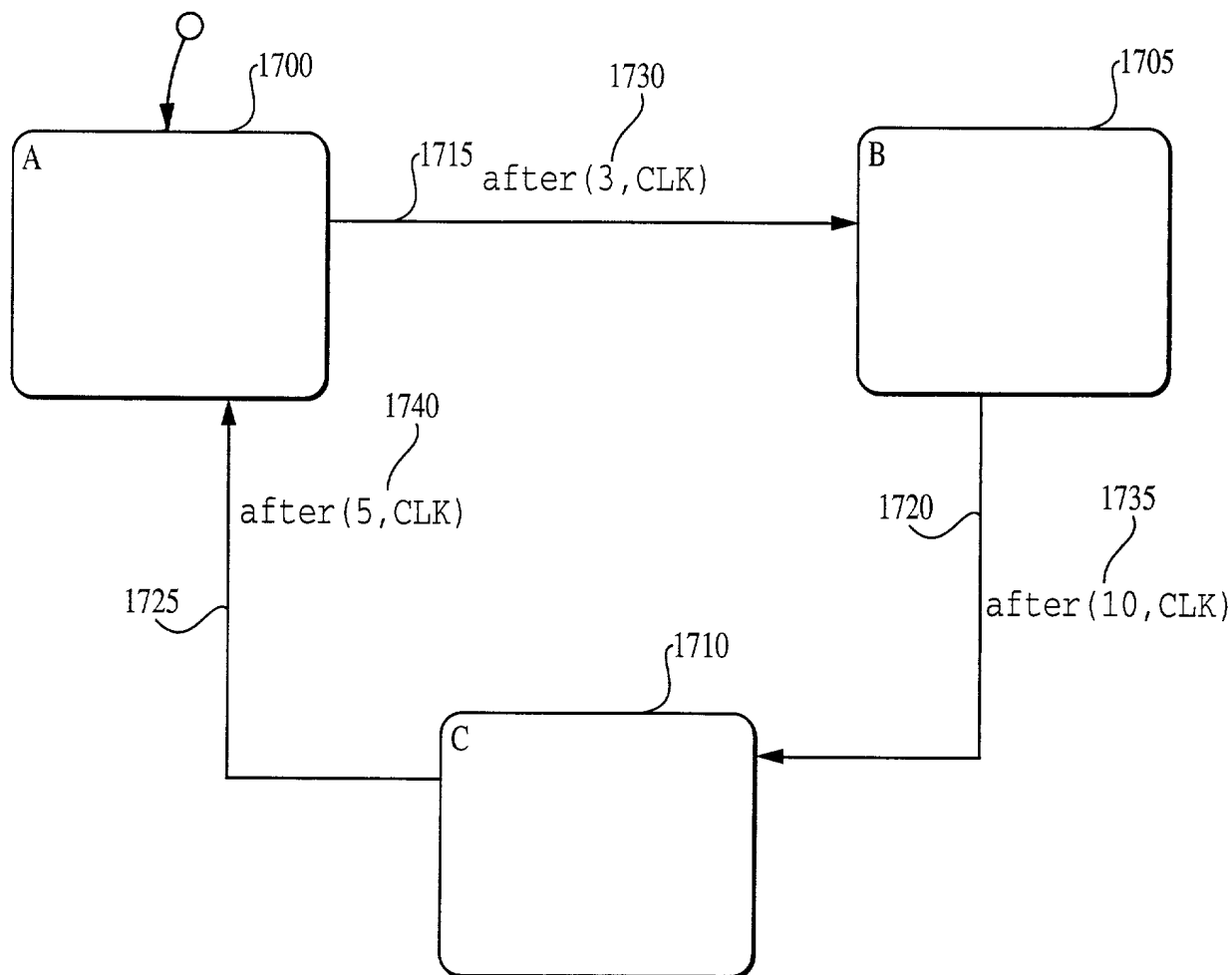


FIG. 17

```

/*
 *
 *
 * Stateflow code generation for chart:
 *   temporal_example/Chart
 *
 * Target Name                : target
 * Model Version              : 1.188
 * Stateflow Version          : 4.0.3.12.00.1.000000
 * Date of code generation    : 26-Mar-2001 12:31:13
 *
 */

#ifndef __chart_h__
#define __chart_h__
typedef struct SFchartCounterStruct {
    unsigned int il : 4;
}SFchartStateStruct;
typedef struct SFchartCounterStruct{
    unsigned int is_active_chart : 1;
    unsigned int is_chart : 2;
} SFchartStateStruct;

typedef struct SFchart_InstanceStruct {
    SFchartCoutnerStruct Counters;
    SFchartStateStruct State;
} SFchartInstanceStruct;

void chart(void);

/* Input events: */
void broadcast_chart_CLK (void) ;
#endif

```

FIG. 18

```

*    temporal_example/Chart
*
* Target Name           : target
* Model Version         : 1.188
* Stateflow Version     : 4.0.3.12.00.1.000000
* Date of code generation : 26-Mar-2001 12:31:13
*
*/

#include "temporal_example_target.h"
#include "chart.h"

#define IN_NO_ACTIVE_CHILD          (0)
#define IN_cl_s1_A                  1
#define IN_cl_s2_B                  2
#define IN_cl_s3_C                  3
#define event_CLK                    0
static SFchartInstanceStruct chartInstance;
void chart(void);

void chart(void) } 1910
{
    {
        /* During: Chart */
        if(_sfEvent_temporal_example_ == event_CLK) {
            if(chartInstance.Counters.il<0xfU) {
                chartInstance.Counters.il++;
            }
        }
        if (chartInstance.State.is_active_chart ==0) {
            /* Entry: Chart */
            chartInstance.State.is_active_chart ==1;
            /* Entry: A */
            chartInstance.State.is_chart = IN_cl_s1_A;
            chartInstance.Counters.il=0;
        } else {
1940 { switch(chartInstance.State.is_chart) {

```

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FIG. 19A-1

FIG. 19A

FIG.
19A-1

FIG.
19A-2

```

case IN_cl_sl_A:
    /* During: A */
    if((_sfEvent_temporal_example_ == event_CLK)    &&
        (chartInstance.Counters.il >= 3))    {
        /* Exit: A */
        /* Entry: B */
        chartInstance.State.is_chart = IN_cl_s2_B;
        chartInstance.Counters.il=0;
    }
    break;
case IN_cl_s2_B:
    /* During: B */
    if((_sfEvent_temporal_example_ == event_CLK)    &&
        (chartInstance.Counters.il >= 10))    {
        /* Exit: B */
        /* Entry: C */
        chartInstance.State.is_chart = IN_cl_s3_C;
        chartInstance.Counters.il=0;
    }

```

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FIG. 19A-2

```

        break;
    case IN_cl_s3_C:
        /*During: C */
        if((_sfEvent_temporal_example_ == event_CLK) &&
            (chartInstance.Counters.il >= 5)) {
            /* Exit: C */
            /* Entry: A */
            chartInstance.State.is_chart = IN_cl_s1_A;
            chartInstance.Counters.il=0;
        }
        break;
    }
}
}
}

void broadcast_chart_CLK (void)
{
    {
        int8_T previousEvent;
        previousEvent = _sfEvent_temporal_example_;
        _sfEvent_temporal_example_ = event_CLK;
        chart();
        _sfEvent_temporal_example_ = previousEvent;
    }
}

```

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FIG. 19B

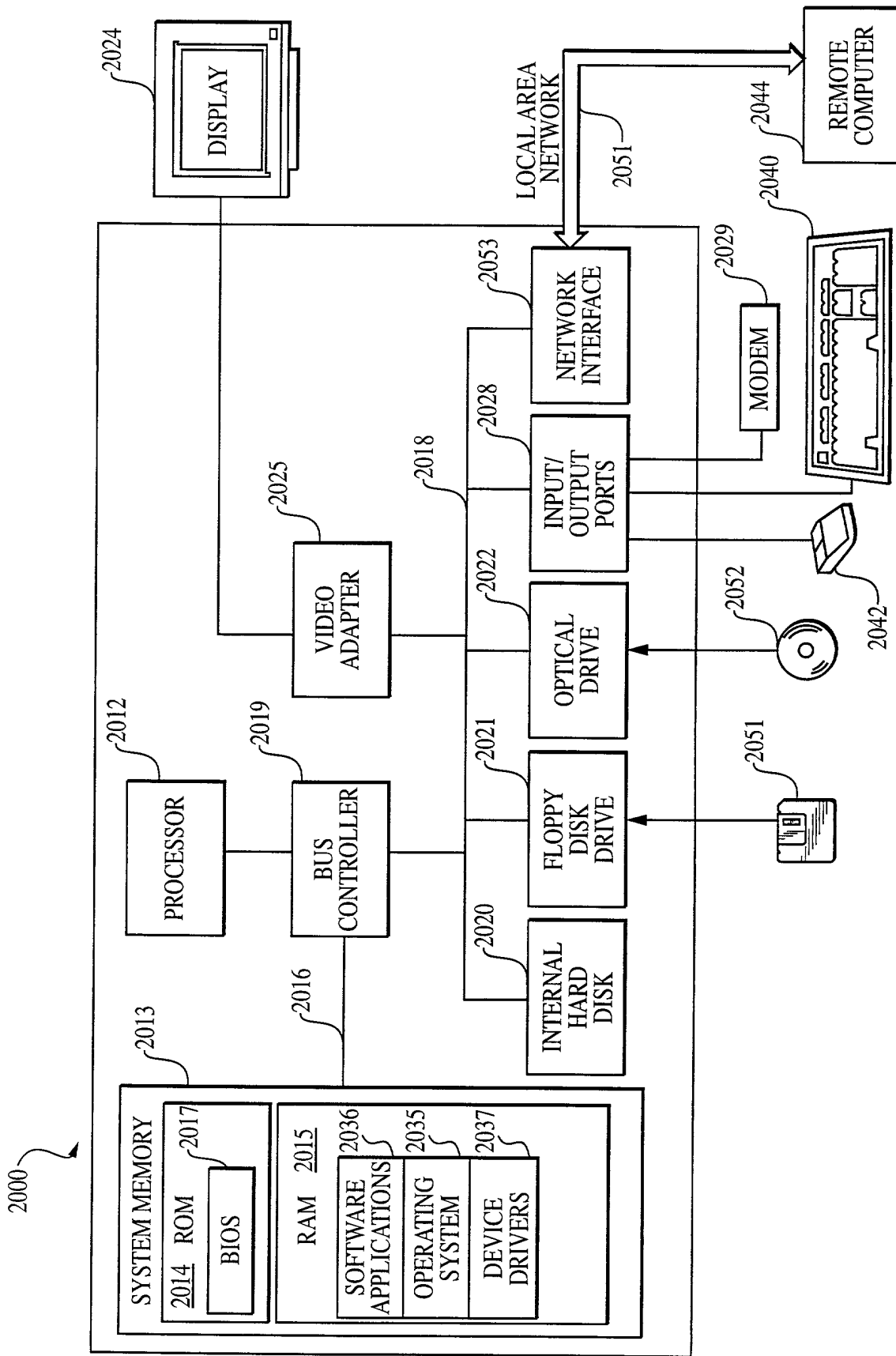


FIG. 20